

## Oconee 2

## 1Q/2000 Performance Indicators

Licensee's General Comments: none

## Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

## Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned scrams	1.0	1.0	0	2.0	0
Critical hours	2041.3	2094.2	2208.0	1186.0	2184.0
Indicator value	2.9	2.5	2.5	3.7	2.7

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



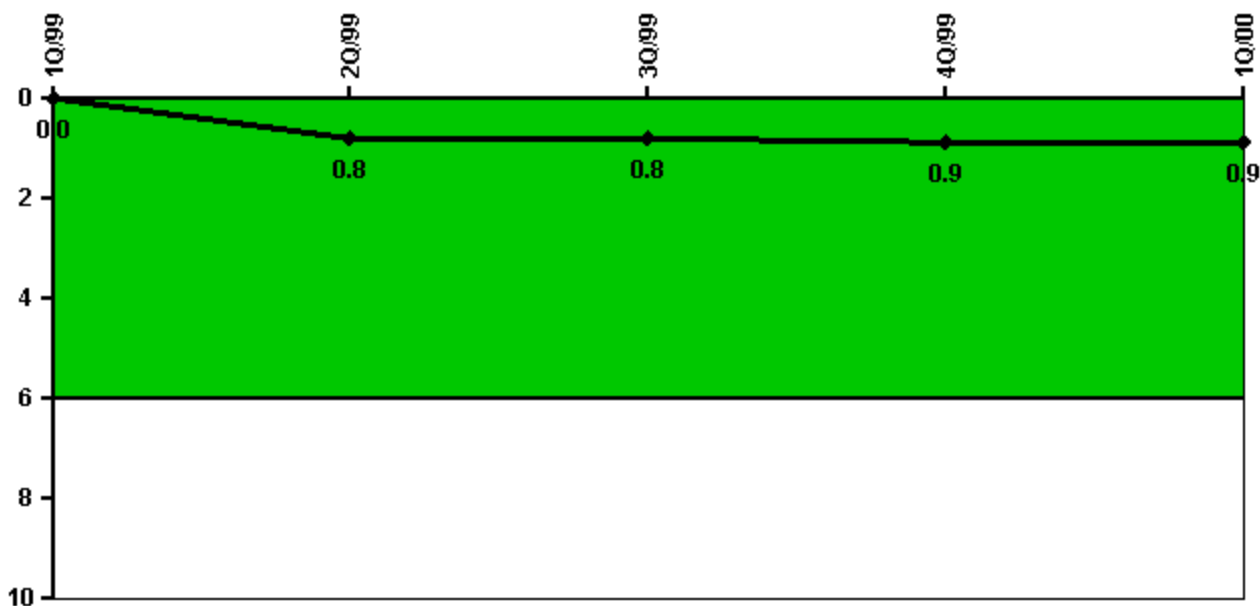
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Scrams	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	1.0	0	0	0
Critical hours	2041.3	2094.2	2208.0	1186.0	2184.0
Indicator value	0	0.8	0.8	0.9	0.9

Licensee Comments: none

## Safety System Unavailability, HEG

**Thresholds  
under  
development /  
review**

### Notes

Safety System Unavailability, HEG	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
<b>Train 1</b>					
Planned unavailable hours	74.63	26.43	150.15	63.36	70.21
Unplanned unavailable hours	6.58	0	0	0	45.46
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
<b>Train 2</b>					
Planned unavailable hours	21.85	0.78	41.86	23.01	56.88
Unplanned unavailable hours	0	0	0	5.28	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
<b>Indicator value</b>	<b>1.9%</b>	<b>1.8%</b>	<b>2.0%</b>	<b>2.0%</b>	<b>2.1%</b>

### Licensee Comments:

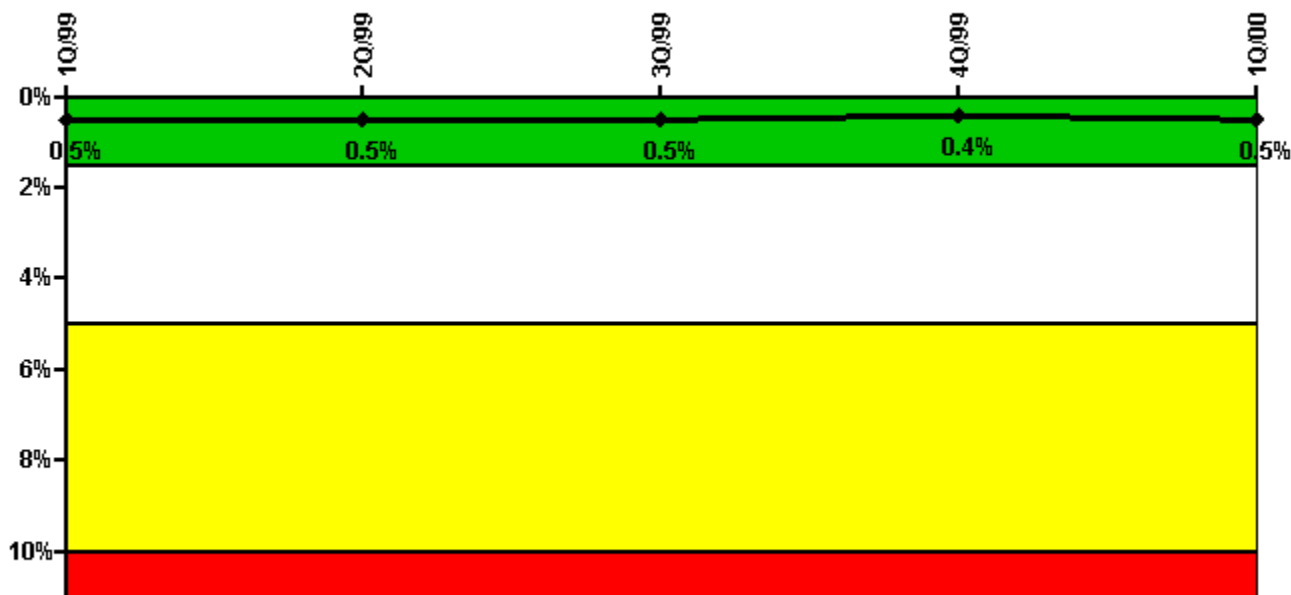
1Q/00: Emergency AC Power system at Oconee is supplied by the two unit Keowee hydroelectric station. Threshold criteria is under development.

3Q/99: Adjusted 'hours train required..'

2Q/99: Adjusted 'hours train required ..' to reflect Daylight Savings Time.

2Q/98: Adjusted 'hours train required for service..' to reflect Daylight Savings Time.

### Safety System Unavailability, High Pressure Injection System (HPSI)



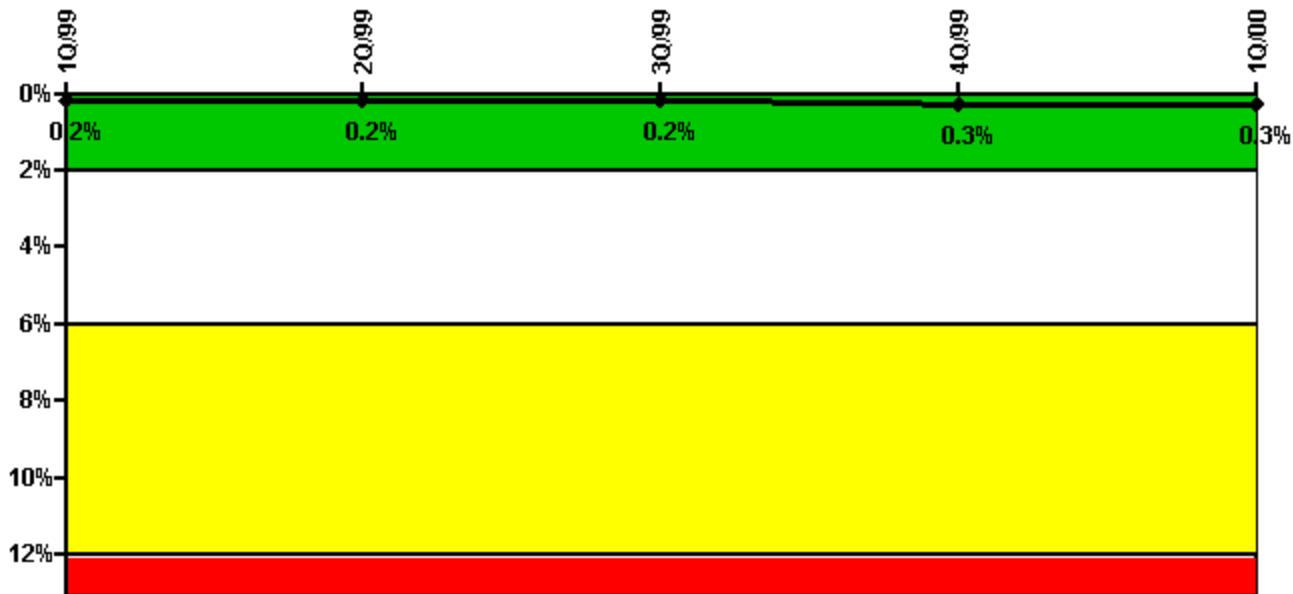
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

### Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
<b>Train 1</b>					
Planned unavailable hours	13.49	0.24	7.25	2.74	9.35
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1296.00	2184.00
<b>Train 2</b>					
Planned unavailable hours	11.88	0	8.50	2.70	12.00
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1296.00	2184.00
<b>Indicator value</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.4%</b>	<b>0.5%</b>

Licensee Comments: none

## Safety System Unavailability, Heat Removal System (AFW)



**Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%**

### Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
<b>Train 1</b>					
Planned unavailable hours	11.70	1.67	3.90	0	10.40
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	466.00	2184.00
<b>Train 2</b>					
Planned unavailable hours	8.20	6.00	12.30	0	10.30
Unplanned unavailable hours	0	4.08	0	0	2.00
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	466.00	2184.00
<b>Train 3</b>					
Planned unavailable hours	0	0	2.80	0	6.82
Unplanned unavailable hours	0	0	0	19.20	2.00
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	466.00	2184.00
<b>Indicator value</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.3%</b>

Licensee Comments:

3Q/99: The Train 1- Number of planned unavailable hours during 7/1999, was changed from 0 to 2. This correction does not affect the color of the PI.

## Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

### Notes

Safety System Unavailability, Residual Heat Removal System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
<b>Train 1</b>					
Planned unavailable hours	21.20	31.66	10.06	18.48	19.45
Unplanned unavailable hours	0	6.17	0	0	10.38
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1970.50	2184.00
<b>Train 2</b>					
Planned unavailable hours	29.20	12.42	11.17	28.58	14.83
Unplanned unavailable hours	0	0	0	0	10.38
Fault exposure hours	0	6.63	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1970.50	2184.00
<b>Indicator value</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.8%</b>	<b>0.9%</b>

### Licensee Comments:

4Q/99: Various revisions of the unavailable hours have been made for the months 4/99 until 4/00. The changes to the unavailability were based on NEI guidelines which allows crediting redundant instrumentation and procedural realignment of the system during testing. This change does not affect the color of the indicator.

4Q/99: Various revisions of the unavailable hours have been made for the months 4/99 until 4/00. The changes to the unavailability were based on NEI guidelines which allows crediting redundant instrumentation and procedural realignment of the system during testing. This change does not affect the color of the indicator. Adjusted 'hours train required for service..' to reflect Daylight Savings Time.

4Q/99: Number of planned unavailable hours for 4Q99 was changed due to a recalculation of data. This change does not affect the color of the

indicator.

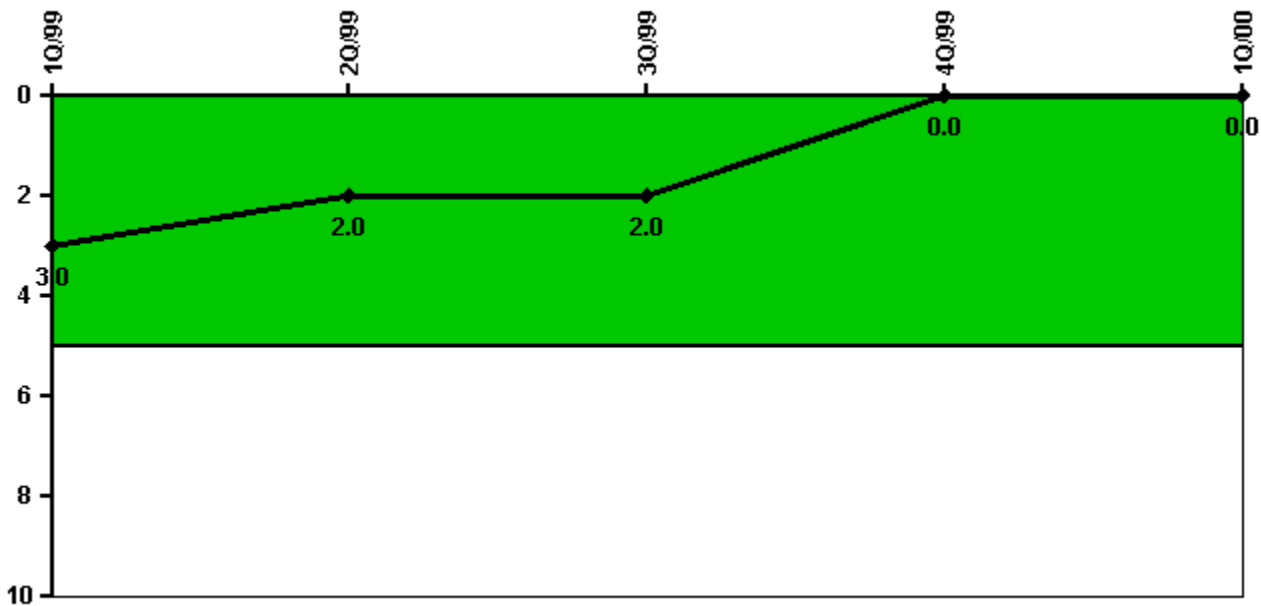
3Q/99: Number of planned unavailable hours for 3Q99 was changed due to a recalculation of data. This change does not affect the color of the indicator.

3Q/99: Various revisions of the unavailable hours have been made for the months 4/99 until 4/00. The changes to the unavailability were based on NEI guidelines which allows crediting redundant instrumentation and procedural realignment of the system during testing. This change does not affect the color of the indicator.

2Q/99: Various revisions of the unavailable hours have been made for the months 4/99 until 4/00. The changes to the unavailability were based on NEI guidelines which allows crediting redundant instrumentation and procedural realignment of the system during testing. This change does not affect the color of the indicator.

2Q/99: Number of planned unavailable hours for 2Q99 was changed due to a recalculation of data. This change does not affect the color of the indicator.

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

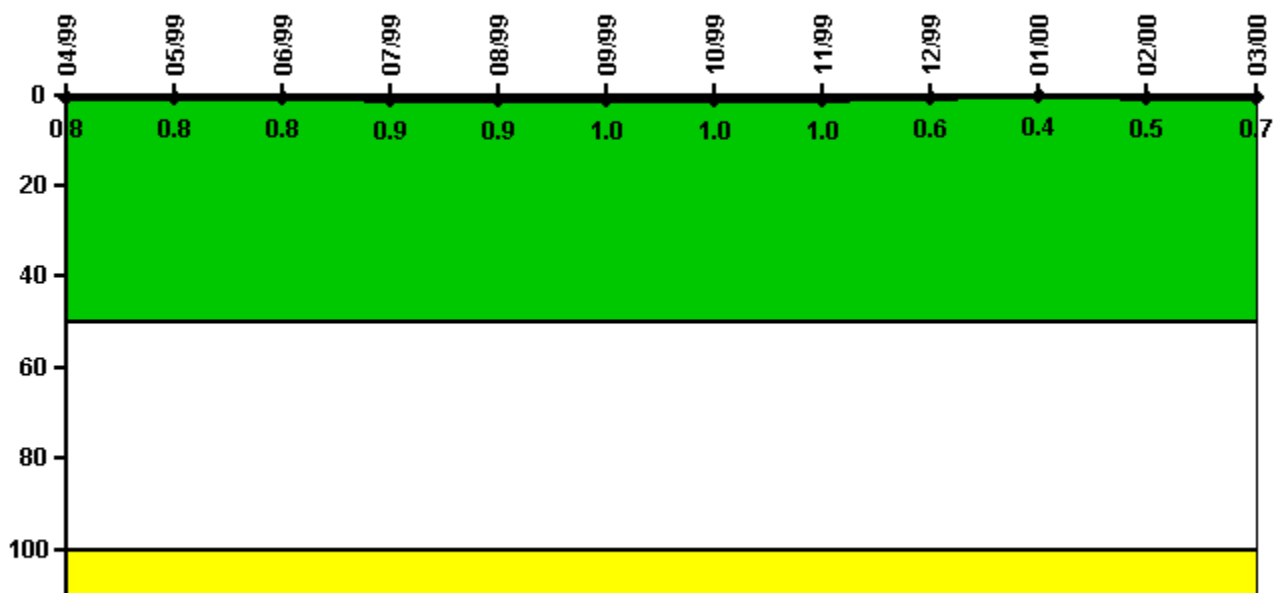
### Notes

Safety System Functional Failures (PWR)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Safety System Functional Failures	0	0	0	0	0
Indicator value	3	2	2	0	0

Licensee Comments: none



### Reactor Coolant System Activity



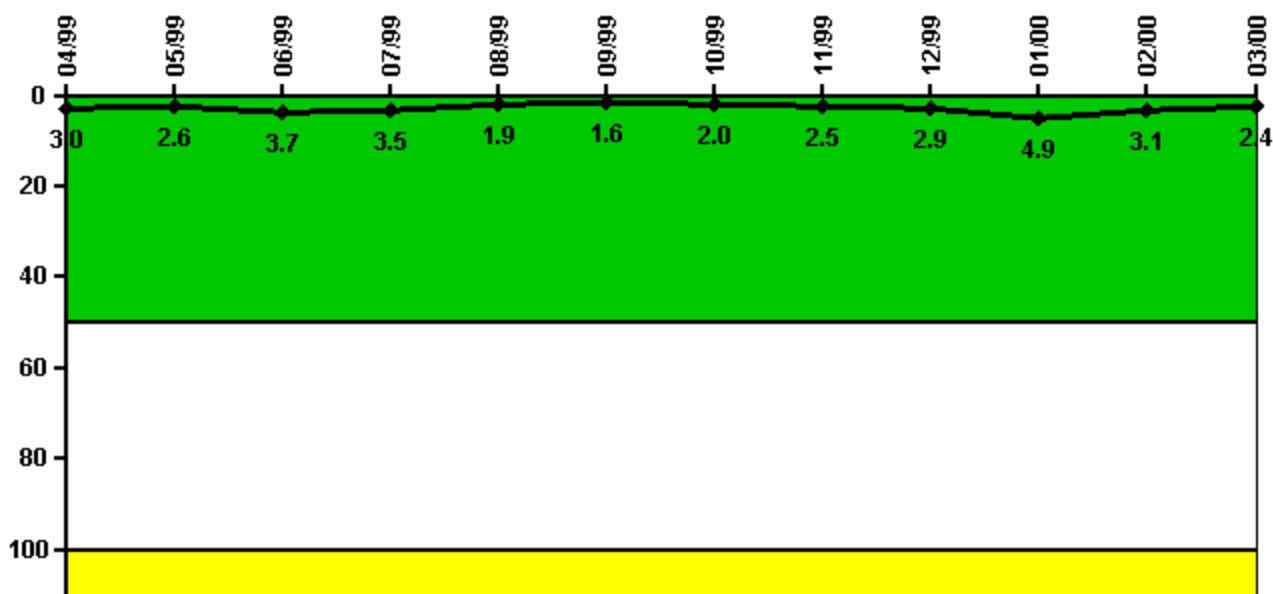
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Activity	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum activity	0.007619	0.008083	0.008412	0.008550	0.009360	0.009750	0.010070	0.009630	0.005949	0.004200	0.004600	0.007391
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.0	0.6	0.4	0.5	0.7

Licensee Comments: none

### Reactor Coolant System Leakage



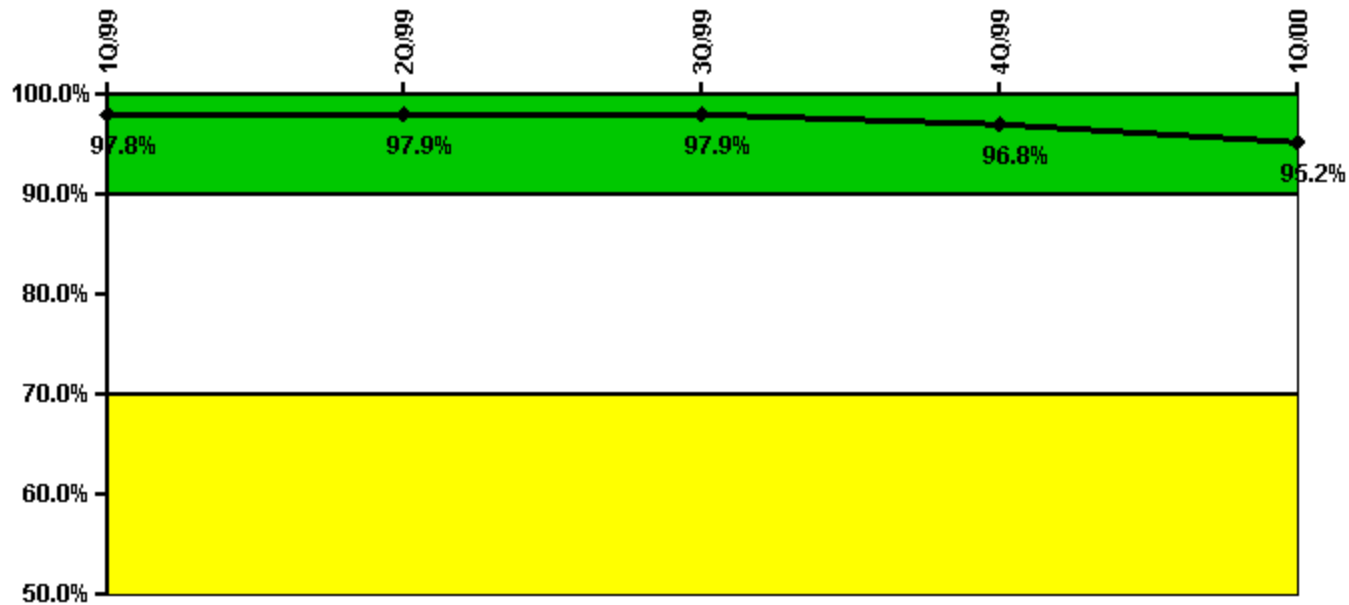
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum leakage	0.300	0.260	0.370	0.350	0.190	0.160	0.200	0.250	0.290	0.490	0.310	0.240
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.0	2.6	3.7	3.5	1.9	1.6	2.0	2.5	2.9	4.9	3.1	2.4

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful opportunities	6.0	8.0	12.0	42.0	19.0
Total opportunities	6.0	8.0	12.0	44.0	22.0
Indicator value	97.8%	97.9%	97.9%	96.8%	95.2%

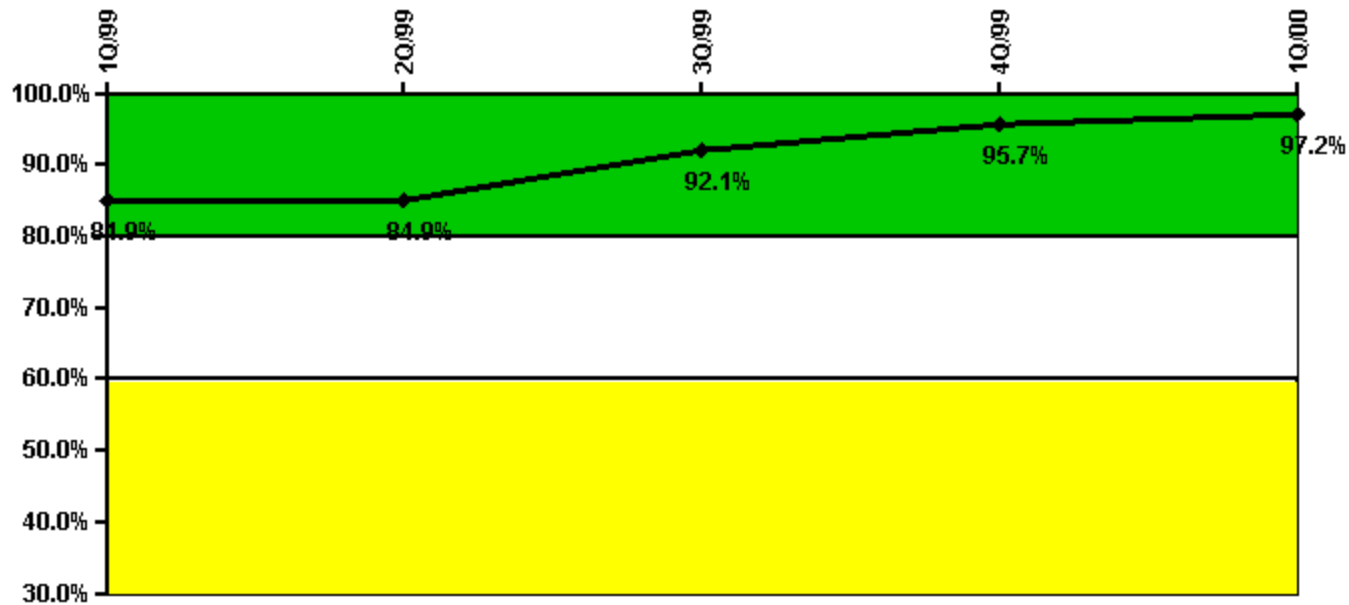
### Licensee Comments:

4Q/99: 4Q99 data is revised to incorporate notification opportunities for 12/99 NOUEs. This change does not affect the PI color.

1Q/99: 1Q99 data is revised to incorporate Alert opportunities/performance from drill 99-01-February. This change does not affect the PI color.

4Q/98: The correct historical data was submitted for Unit 1 but was not corrected for Unit 2 and Unit 3. This change does not affect the PI color.

### ERO Drill Participation



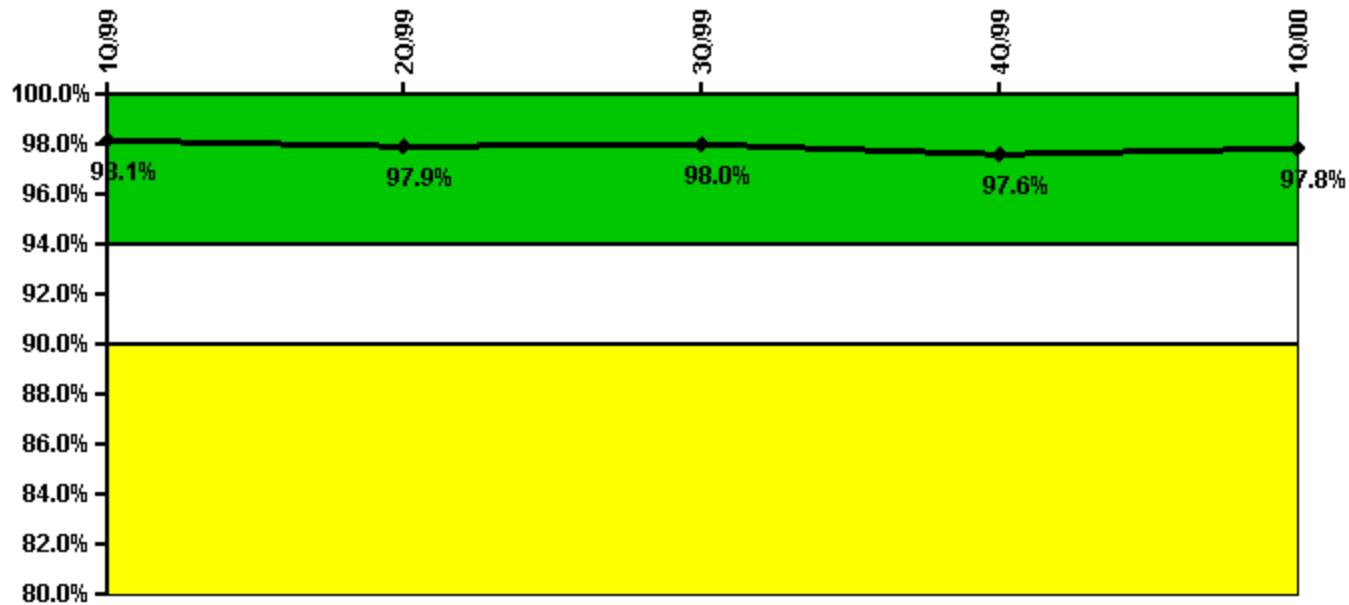
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Participating Key personnel	124.0	124.0	129.0	135.0	138.0
Total Key personnel	146.0	146.0	140.0	141.0	142.0
Indicator value	84.9%	84.9%	92.1%	95.7%	97.2%

Licensee Comments: none

### Alert & Notification System



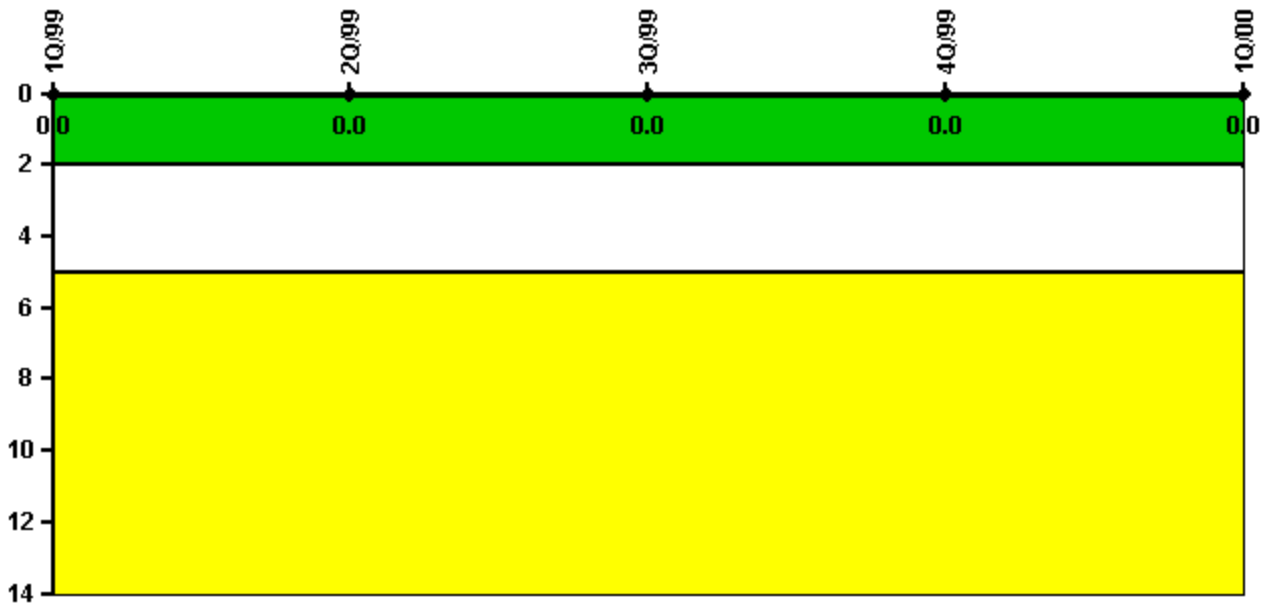
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful siren-tests	913	1133	1184	951	1256
Total sirens-tests	924	1162	1211	987	1267
Indicator value	98.1%	97.9%	98.0%	97.6%	97.8%

Licensee Comments: none

## Occupational Exposure Control Effectiveness



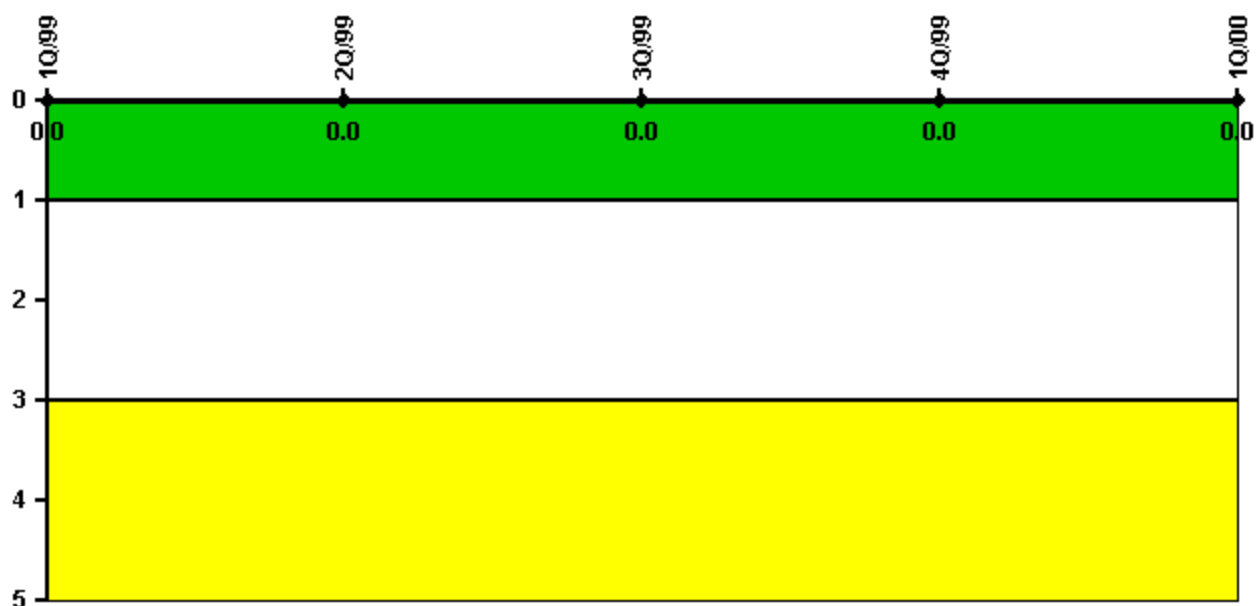
Thresholds: White > 2.0 Yellow > 5.0

### Notes

Occupational Exposure Control Effectiveness	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments:

1Q/99: Technical specification high radiation area occurrences during the quarter for Unit 2 was reported as 1, however, the number should have been 0.

**RETS/ODCM Radiological Effluent**

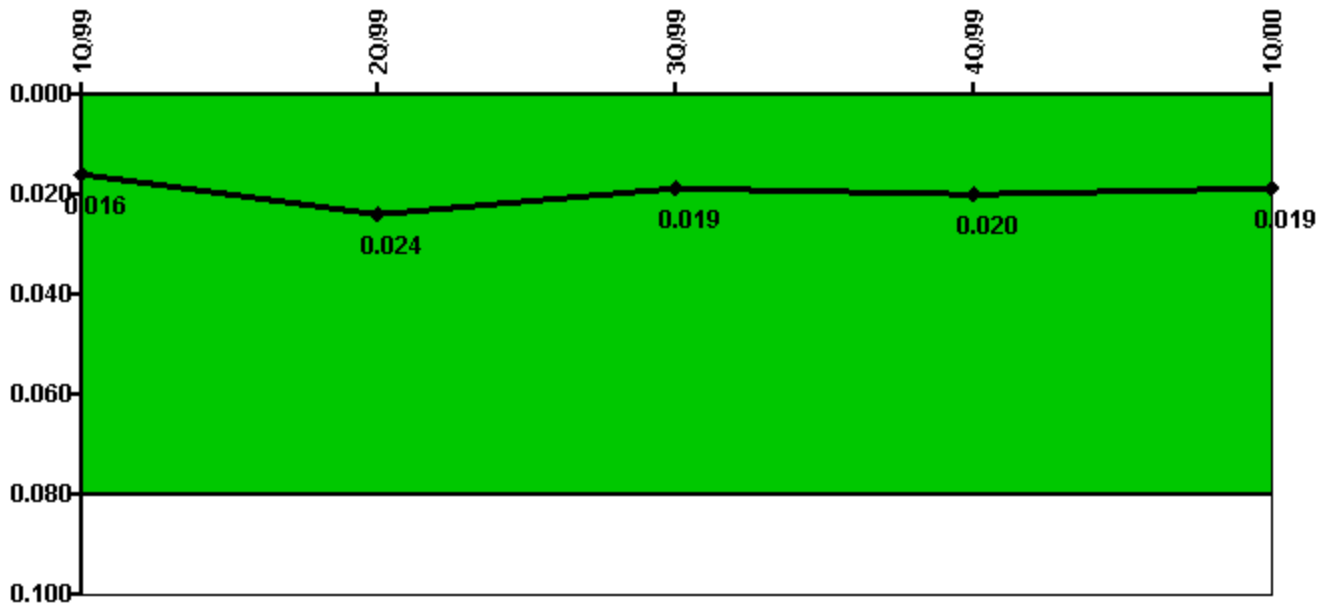
Thresholds: White > 1.0 Yellow > 3.0

**Notes**

RETS/ODCM Radiological Effluent	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

### Protected Area Security Performance Index



Thresholds: White > 0.080

#### Notes

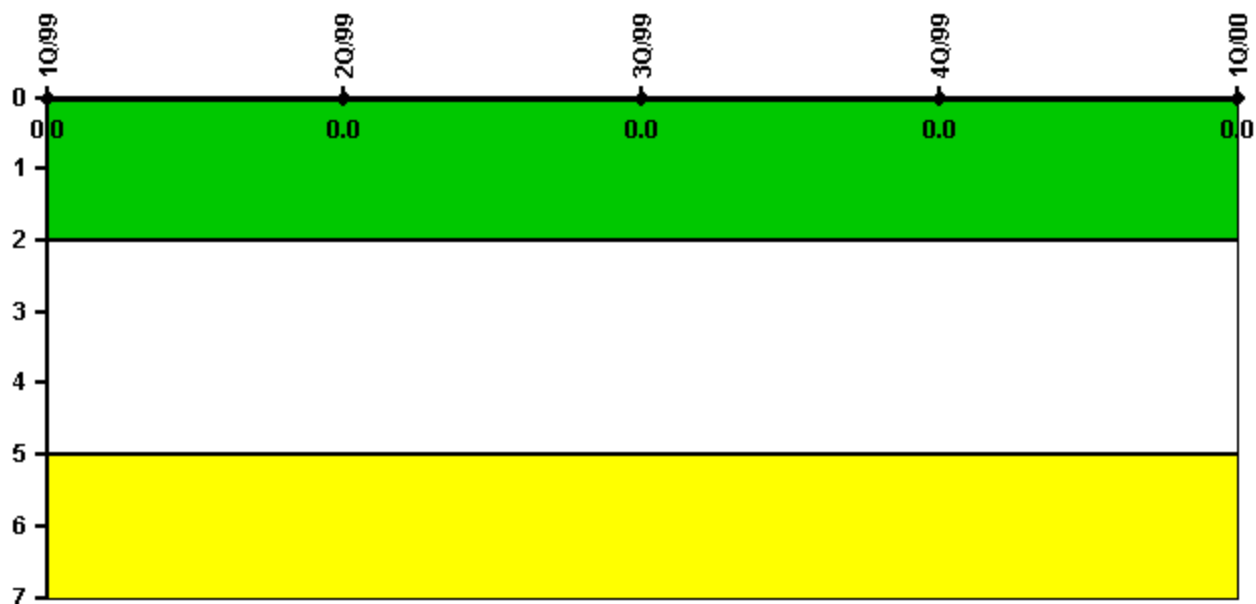
Protected Area Security Performance Index	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
IDS compensatory hours	30.00	3.00	49.00	183.00	33.00
CCTV compensatory hours	15.0	138.0	101.0	1.0	0
IDS normalization factor	2.80	2.80	2.80	2.80	2.80
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	0.016	0.024	0.019	0.020	0.019

Licensee Comments:

1Q/00: The correct IDS Normalization Factor is 2.8 (not 2.45). This change is for 1Q00 only and does not affect the color of the Performance Indicator.



### Personnel Screening Program



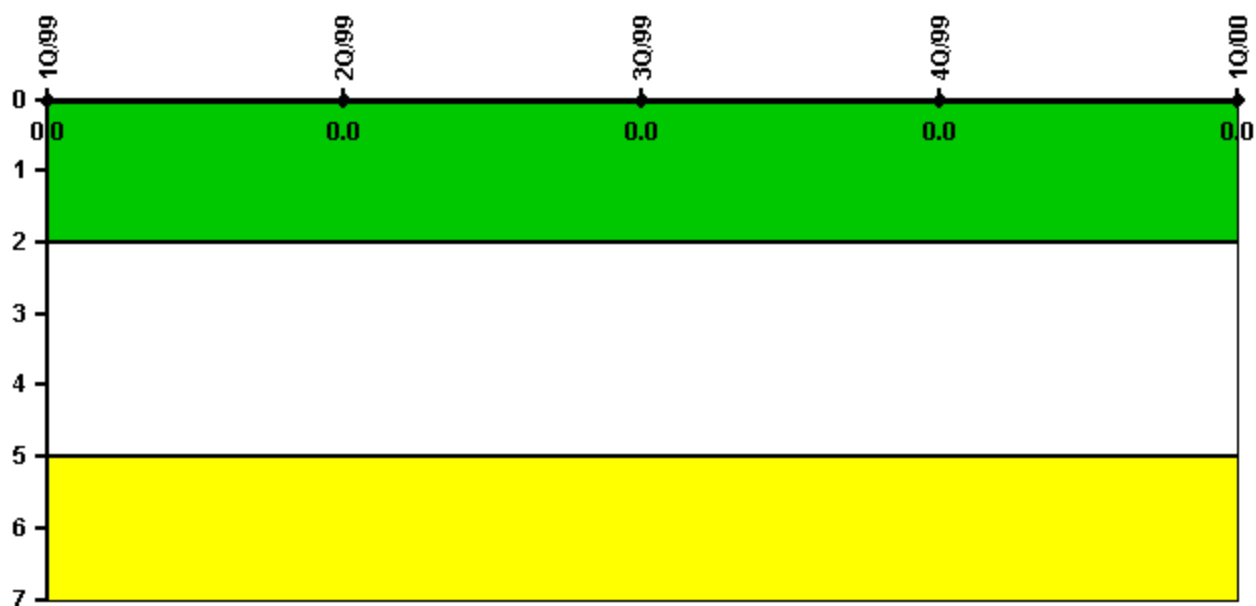
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Personnel Screening Program	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Program failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

### FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

### Notes

FFD/Personnel Reliability	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Program Failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none



[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: April 1, 2002